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GERMAN, per, Helvetica Physica Acta, No 3, 1957,
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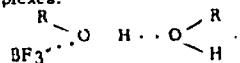
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nances as a function of the BF_3 concentration in BF_3 -
alcohol complexes show the existence of mono- and
dicomplexes, and confirm the recently proposed struc-
ture for the dicomplexes:



Between different BF_3 complexes, an exchange of BF_3
groups takes place. For the exchange of BF_3 between
 $\text{BF}_3\text{CH}_3\text{OH}$ and $\text{BF}_3\text{C}_2\text{H}_5\text{OH}$ the activation energy is
7.3 : 1 kcal/mole. The chemical components of the
system $\text{H}_2\text{O}\text{-BF}_3$ are identified as the HBF_4 , HBF_3OH ,
(Chemistry--Physical, TT, v. 5, no. 5) (over)

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2. Complex compounds--Spectra
3. Magnetic resonance--Applications

1. Diehl, P.

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Exchange Interaction Between Superconduction ~~XXXXXXXXXX~~
Electrons of a Superconductor and Paramagnetic Ions,
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Growth of Ice Water Mixtures in an Experimental
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Amer Meteorol Soc T-G-165
AF Cambridge Res Center

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The Absolute Measurement of Radioactive Source
Strengths by Means of a New Form of the Coin-
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Hulliger, F. von.
ON THE CONNECTION BETWEEN MAGNETISM AND
ELECTRICAL CONDUCTIVITY OF COMPOUNDS
WITH TRANSITION ELEMENTS. [1963] 54p. (figs.
tables [refs.] omitted).
Order from SLA \$5.60

63-14855

Trans. of Helvetica Physica Acta (Switzerland) 1959,
v. 32, p. 615-654.

DESCRIPTORS: *Chemical bonds, *Magnetism,
*Electrical conductance, Chemical compounds, *Transi-
tion elements, Valence, Electrons, *Semiconductors,
Ferromagnetism.

In judging the compounds with transition elements the
problem consists of being able to conclude whether the
non-binding d- or f-electrons are independent from the
binding-electrons. A partial occupation of energetically
(Physics--Solid State, TT, v. 10, no. 4) (over)

63-14855

I. Hulliger, F. von

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Superconductivity in Alloys of Molybdenum With Titanium and Vanadium, by E. Bucher, G. Busch, J. Muller, 3 pp.

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Sci - Min/Metals, Phys

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*AEC -TR - 5851

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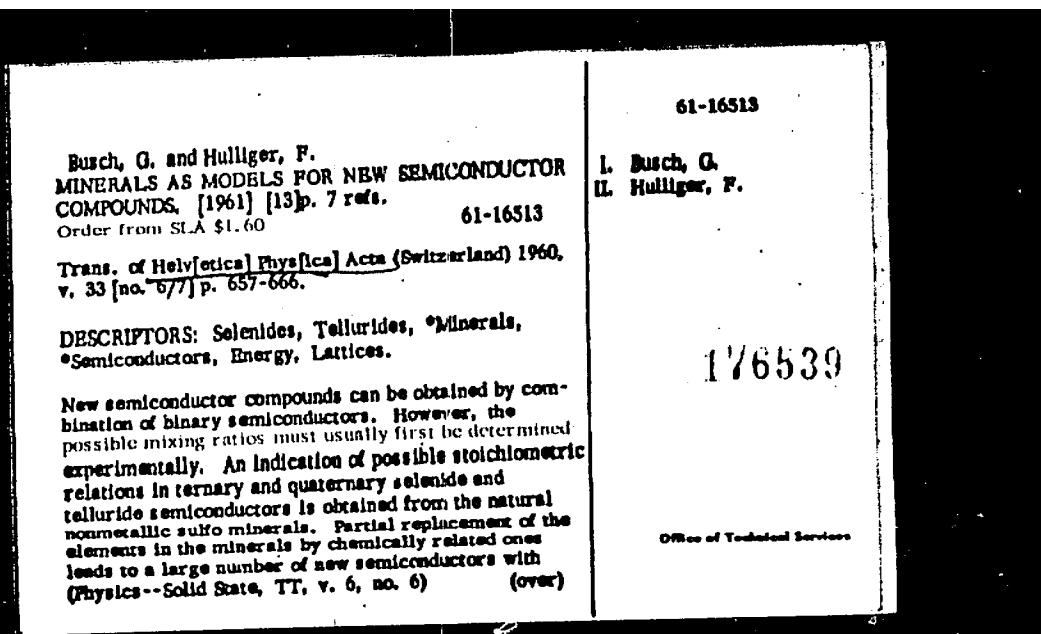
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Trans. of Helvetica Physica Acta (Switzerland) 1960,
v. 33, p. 933-940.

DESCRIPTORS: "Masers," "Microwave amplifiers,"
"Optics," "Molecular spectroscopy," "Excitation," "Atoms,"
"Photons," "Gases," "Plasma physics," "Lasers."

(Physics--Optics, TT, v. 10, no. 10)

63-18148

I. HOUZETTIENS, F. G.

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Ehrat, R. and Rivier, D.
ON THE THEORY OF ENERGY BANDS FOR TRANSITION METALS OF THE FIRST PERIOD. [1961] 7p.
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Order from SLA \$1.10

Trans. of Helvetica Physica Acta (Switzerland) 1960,
v. 33, no. 9, p. 954-959.

DESCRIPTORS: *Metals, *Transition elements, Energy,
Specific heat, Electrons, Theory.

Recent measurements of the specific electronic heat γ
and the common Hall constant R_0 as a function of T
seems to challenge the general band model for the transition metals and, particularly, the approximation of
the rigid band. Perhaps better approximations of the
band theory will re-establish agreement with experiment. It seems desirable to extend the measurements
(Physics, TT, v. 6, no. 10) (over)

61-18691

I. Ehrat, R.
II. Rivier, D.

Office of Technical Services

A Source of Polarized Deuterons and Detection of
the Polarization by the (d, π) Reaction, by E. Rudin,
H. R. Striebel, E. Baumgartner, 28 pp.

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A Generalized Perturbation Theory for
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APPARATUS FOR PULLING SINGLE CRYSTALS OF
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Sp. 5 refs.

Order from SLA \$1.10

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Trans. of Helv[etica] Phys[ica] Acta (Switzerland) 1961,
v. 34, 15 Aug, p. 370-373.

DESCRIPTORS: *Single crystals, Crystals, *Crystal
holders, Metallic crystals.

The apparatus uses magnetic coupling combined with a
new drive system for the crystal holder. Due to the
special shape of the pole pieces and the two hollow
cylinders of Hipercor (Curie point 970°C) sealed in the
seed holder, the latter is always attracted to the same
pole piece. If the magnet rotates around the axis of the
ampoule, the seed holder on its two roller tracks rolls
(Physics-Solid State, TT, v. 10, no. 6) (over)

I. Beck, A.
II. Mooser, E.

Office of Technical Services

Electrical Field Gradients in Ion Crystals, by
E. Brun, S. Hafner, et al.

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Electrons of a Superconductor and Paramagnetic Ions,
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AEC-TL-5978

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Growth of Ice Water Mixtures in an Experimental
Hail Tunnel, by Roland List, 3 pp.

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Amer Meteorol Soc T-G-165
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The Absolute Measurement of Radioactive Source
Strengths by Means of a New Form of the Coin-
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P. Huber, 26 pp.

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AEC AECL-978

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Mesure Absolue des Intensites des Sources Radioactives a l'Aide d'une forme Nouvelle de la Methode de Coincidence, by K. P. Meyer, P. Schmid, et al, 40 pp.

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The Fermi Surface of Aluminum, by B. Luthi.

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tables [refs.] omitted).
Order from SLA \$5.60

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Trans. of Helvetica Physica Acta (Switzerland) 1959,
v. 32, p. 615-654.

DESCRIPTORS: *Chemical bonds, *Magnetism,
*Electrical conductance, Chemical compounds, *Transi-
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(Physics--Solid State, TT, v. 10, no. 4) (over)

63-14855

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Superconductivity in Alloys of Molybdenum With
Titanium and Vanadium, by E. Bucher, G. Busch,
J. Muller, 3 pp.

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1959, pp 318-320. 9077276

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Sci - Min/Metals, Phys

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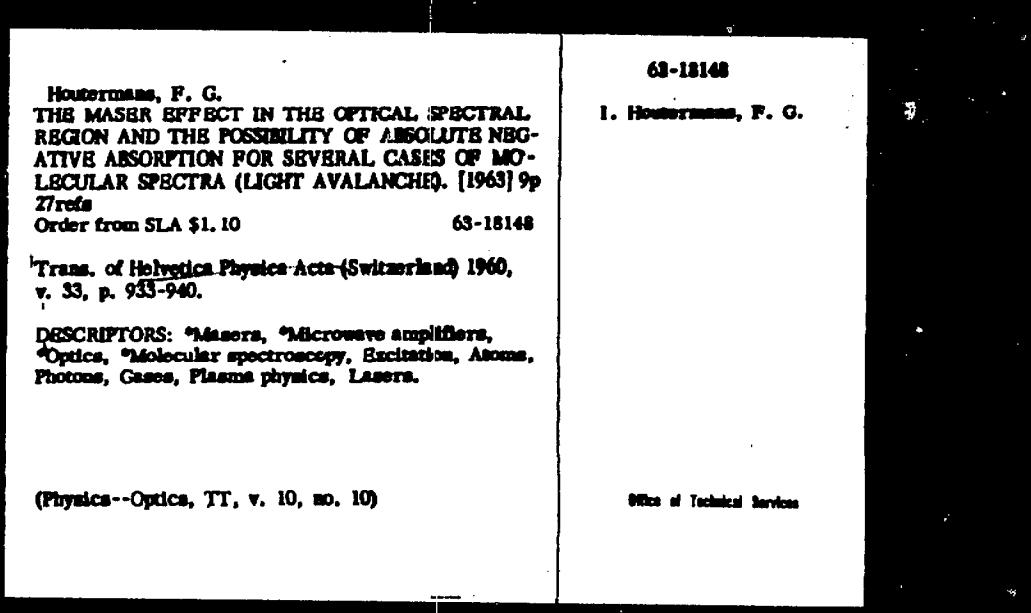
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